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INTEGRATED INFORMATION SUPPORT SYSTEM (IISS)
Volume VIII - User Interface Subsystem
Part 21 - Forms Driven Forms Editor Unit Test Plan

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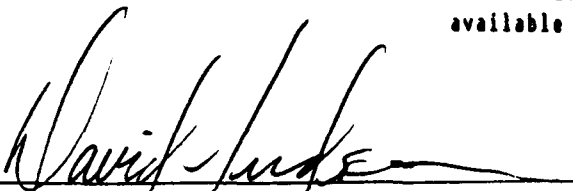
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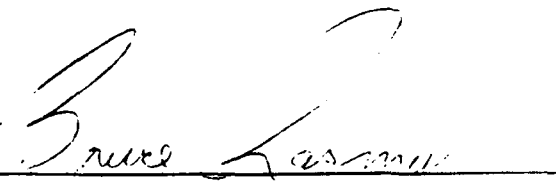
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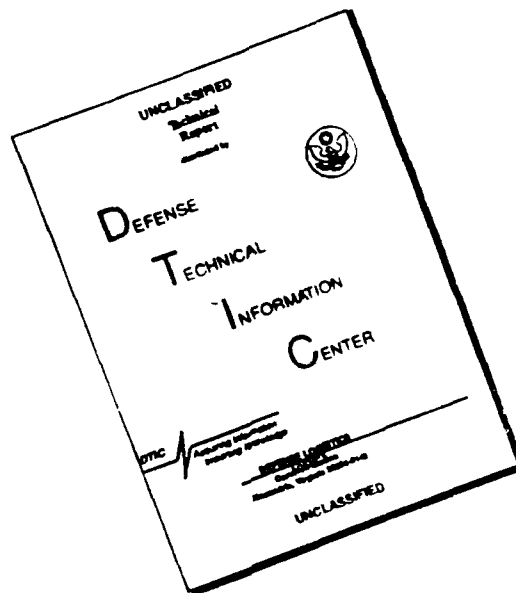

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FOREWORD

This technical report covers work performed under Air Force Contract F33600-87-C-0464, DAPro Project. This contract is sponsored by the Manufacturing Technology Directorate, Air Force Systems Command, Wright-Patterson Air Force Base, Ohio. It was administered under the technical direction of Mr. Bruce A. Rasmussen, Branch Chief, Integration Technology Division, Manufacturing Technology Directorate, through Mr. David L. Judson, Project Manager. The Prime Contractor was Integration Technology Services, Software Programs Division, of the Control Data Corporation, Dayton, Ohio, under the direction of Mr. W. A. Osborne. The DAPro Project Manager for Control Data Corporation was Mr. Jimmy P. Maxwell.

The DAPro project was created to continue the development, test, and demonstration of the Integrated Information Support System (IISS). The IISS technology work comprises enhancements to IISS software and the establishment and operation of IISS test bed hardware and communications for developers and users.

The following list names the Control Data Corporation subcontractors and their contributing activities:

SUBCONTRACTOR

ROLE

Control Data Corporation	Responsible for the overall Common Data Model design development and implementation, IISS integration and test, and technology transfer of IISS.
D. Appleton Company	Responsible for providing software information services for the Common Data Model and IDEF1X integration methodology.
ONTEK	Responsible for defining and testing a representative integrated system base in Artificial Intelligence techniques to establish fitness for use.
Simpact Corporation	Responsible for Communication development.
Structural Dynamics Research Corporation	Responsible for User Interfaces, Virtual Terminal Interface, and Network Transaction Manager design, development, implementation, and support.
Arizona State University	Responsible for test bed operations and support.

TABLE OF CONTENTS

	<u>Page</u>
SECTION 1.0 GENERAL	1-1
1.1 Purpose	1-1
1.2 Project References	1-1
1.3 Terms and Abbreviations	1-2
SECTION 2.0 DEVELOPMENT ACTIVITY	2-1
2.1 Statement of Pretest Activity	2-1
2.2 Pretest Activity Results	2-1
SECTION 3.0 SYSTEM DESCRIPTION	3-1
3.1 System Description	3-1
3.2 Testing Schedule	3-2
3.3 First Location Testing	3-3
3.3.1 Test Materials on VAX	3-3
3.4 Subsequent Location Testing on VAX	3-3
SECTION 4.0 SPECIFICATIONS AND EVALUATIONS	4-1
4.1 Test Specification	4-1
4.2 Test Methods and Constraints	4-3
4.3 Test Progression	4-3
4.4 Test Evaluation	4-4
4.4.1 Test Evaluation on the VAX	4-4
SECTION 5.0 TEST PROCEDURES	5-1
5.1 Test Description	5-1
5.2 Test Control	5-1
5.3 Test Procedures	5-1
5.3.1 Keypad Function	5-1
5.3.1.1 Keypad on VAX	5-2
5.3.1.2 Keypad on IBM	5-2
5.3.2 Test Procedures on VAX	5-2
5.3.3 IBM Test Procedures	5-3
5.3.4 Testing the FDFE	5-4

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LIST OF ILLUSTRATIONS

<u>Figure</u>	<u>Title</u>	<u>Page</u>
3-1	Interface Block Diagram	3-2
5-1	Keypad for VT100	5-2
5-2	IISS Logon Screen	5-4
5-3	IISS Function Screen	5-5
5-4	Invoking the FDFE	5-6
5-5	Test Screen 1	5-7
5-6	Test Screen 2	5-8
5-7	Test Screen 3	5-9
5-8	Test Screen 4	5-10
5-9	Test Screen 5	5-11
5-10	Test Screen 6	5-12
5-11	Test Screen 7	5-13
5-12	Test Screen 8	5-14
5-13	Test Screen 9	5-15
5-14	Test Screen 10	5-16
5-15	Test Screen 11	5-17
5-16	Test Screen 12	5-18
5-17	Test Screen 13	5-19
5-18	Test Screen 14	5-20
5-19	Test Screen 15	5-21
5-20	Test Screen 16	5-22
5-21	Test Screen 17	5-23
5-22	Test Screen 18	5-24
5-23	Test Screen 19	5-25
5-24	Test Screen 20	5-26
5-25	Test Screen 21	5-27
5-26	Test Screen 22	5-28
5-27	Test Screen 23	5-29
5-28	Test Screen 24	5-30
5-29	Test Screen 25	5-31
5-30	Test Screen 26	5-32
5-31	Test Screen 27	5-33
5-32	Test Screen 28	5-34
5-33	Test Screen 29	5-35
5-34	Test Screen 30	5-36
5-35	Test Screen 31	5-37
5-36	Test Screen 32	5-38
5-37	Test Screen 33	5-39
5-38	Test Screen 34	5-40
5-39	Test Screen 35	5-41
5-40	Test Screen 36	5-42
5-41	Test Screen 37	5-43
5-42	Test Screen 38	5-44
5-43	Test Screen 39	5-45
5-44	Test Screen 40	5-46
5-45	Test Screen 41	5-47
5-46	Test Screen 42	5-48
5-47	Test Screen 43	5-49
5-48	Test Screen 44	5-50
5-49	Test Screen 45	5-51
5-50	Test Screen 46	5-52

5-51	Test Screen 47	.....	5-53
5-52	Test Screen 48	.....	5-54
5-53	Test Screen 49	.....	5-55
5-54	Test Screen 50	.....	5-56
5-55	Test Screen 51	.....	5-57
5-56	Test Screen 52	.....	5-58
5-57	Test Screen 53	.....	5-59
5-58	Test Screen 54	.....	5-60
5-59	Test Screen 55	.....	5-61
5-60	Test Screen 56	.....	5-62
5-61	Test Screen 57	.....	5-63
5-62	Test Screen 58	.....	5-64
5-63	Test Screen 59	.....	5-65
5-64	Test Screen 60	.....	5-66
5-65	Test Screen 61	.....	5-67
5-66	Test Screen 62	.....	5-68
5-67	Test Screen 63	.....	5-69
5-68	Test Screen 64	.....	5-70
5-69	Test Screen 65	.....	5-71
5-70	Test Screen 66	.....	5-72
5-71	Test Screen 67	.....	5-73
5-72	Test Screen 68	.....	5-74
5-73	Test Screen 69	.....	5-75
5-74	Test Screen 70	.....	5-76
5-75	Test Screen 71	.....	5-77
5-76	Test Screen 72	.....	5-78
5-77	Test Screen 73	.....	5-79
5-78	Test Screen 74	.....	5-80
5-79	Test Screen 75	.....	5-81
5-80	Test Screen 76	.....	5-82
5-81	Test Screen 77	.....	5-83
5-82	Test Screen 78	.....	5-84
5-83	Test Screen 79	.....	5-85
5-84	Test Screen 80	.....	5-86
5-85	Test Screen 81	.....	5-87
5-86	Test Screen 82	.....	5-88
5-87	Test Screen 83	.....	5-89

LIST OF TABLES

<u>Table</u>	<u>Title</u>	<u>Page</u>
4-1	Matrix Mapping FDFE Functions with Test Plan ...	4-2

SECTION 1
GENERAL

1.1 Purpose

This unit test plan establishes the methodology and procedures used to adequately test the capabilities of the computer program identified as the Forms Driven Form Editor known in this document as the FDFE. The FDFE is one configuration item of the Integrated Information Support System (IISS) User Interface (UI).

1.2 Project References

- [1] Systran, ICAM Documentation Standards, IDS150120000C, 15 September 1983.
- [2] Structural Dynamics Research Corporation, Form Editor User Manual, UM 620244400, 24 October 1986.
- [3] Structural Dynamics Research Corporation, Forms Driven Form Editor Development Specification, DS 620244402, 24 October 1986.
- [4] General Electric Company, System Design Specification, 7 February 1983.
- [5] Structural Dynamics Research Corporation, Form Processor Unit Test Plan, UTP620244200, 24 October 1986.
- [6] Structural Dynamics Research Corporation, Application Interface Unit Test Plan, UTP620244700, 24 October 1986.
- [7] Structural Dynamics Research Corporation, Virtual Terminal Interface Unit Test Plan, UTP620244300, 24 October 1986.
- [8] Structural Dynamics Research Corporation, Forms Language Compiler Unit Test Plan, UTP620244401, 24 October 1986.
- [9] Structural Dynamics Research Corporation, User Interface Services Unit Test Plan, UTP620244100, 24 October 1986.
- [10] Structural Dynamics Research Corporation, Report Writer Unit Test Plan, UTP620244501, 24 October 1986.
- [11] Structural Dynamics Research Corporation, Rapid Application Generator Unit Test Plan, UTP620244502, 24 October 1986.
- [12] Sturctural Dynamics Research Corporation, Text Editor Unit Test Plan, UTP620244600, 24 October 1986.

1.3 Terms and Abbreviations

American Standard Code for Information Interchange:
(ASCII), the character set defined by ANSI X3.4 and used by most computer vendors.

Application Interface: (AI), subset of the IISS User Interface that consists of the callable routines that are linked with applications that use the Form Processor or Virtual Terminal. The AI enables applications to be hosted on computers other than the host of the User Interface.

Application Process: (AP), a cohesive unit of software that can be initiated as a unit to perform some function or functions.

Attribute: field characteristic such as blinking, highlighted, black, etc. and various other combinations. Background attributes are defined for forms or windows only. Foreground attributes are defined for items. Attributes may be permanent, i.e., they remain the same unless changed by the application program, or they may be temporary, i.e., they remain in effect until the window is redisplayed.

Device Drivers: (DD), software modules written to handle I/O for a specific kind of terminal. The modules map terminal specific commands and data to a neutral format. Device Drivers are part of the UI Virtual Terminal.

Display List: a list of all the open forms that are currently being processed by the FP or the user.

Extended Binary Coded Decimal Interchange Code: (EBCDIC), the character set used by a few computer vendors (notably IBM) instead of ASCII.

Field: two dimensional space on a terminal screen.

Form: structured view which may be imposed on windows or other forms. A form is composed of fields. These fields may be defined as forms, items, and windows.

Form Definition: (FD), forms definition language after compilation. It is read at runtime by the Form Processor.

Forms Definition Language: (FDL), the language in which electronic forms are defined.

Forms Driven Form Editor: (FD FE), subset of the FE which consists of a forms driven application used to create Form Definition files interactively.

Form Editor: (FE), subset of the IISS User Interface that is used to create definitions of forms. The FE consists of the Forms Driven Form Editor and the Forms Language Compiler.

Form Hierarchy: a graphic representation of the way in which forms, items and windows are related to their parent form.

Forms Language Compiler: (FLAN), subset of the FE that consists of a batch process that accepts a series of forms definition language statements and produces form definition files as output.

Form Processor: (FP), subset of the IISS User Interface that consists of a set of callable execution time routines available to an application program for form processing.

Form Processor Text Editor: (FPTE), subset of the Form Processor that consists of software modules that provide text editing capabilities to all users of applications that use the Form Processor.

IISS Function Screen: the first screen that is displayed after logon. It allows the user to specify the function he wants to access and the device type and device name on which he is working.

Integrated Information Support System: (IISS), a test computing environment used to investigate, demonstrate and test the concepts of information management and information integration in the context of Aerospace Manufacturing. The IISS addresses the problems of integration of data resident on heterogeneous data bases supported by heterogeneous computers interconnected via a Local Area Network.

Item: non-decomposable area of a form in which hard-coded descriptive text may be placed and the only defined areas where user data may be input/output.

Message: descriptive text which may be returned in the standard message line on the terminal screen. They are used to warn of errors or provide other user information.

Message Line: a line on the terminal screen that is used to display messages.

Network Transaction Manager: (NTM), IISS subsystem that performs the coordination, communication and housekeeping functions required to integrate the Application Processes and System Services resident on the various hosts into a cohesive system.

Open List: a list of all the forms that are currently open for an application process.

Operating System: (OS), software supplied with a computer which allows it to supervise its own operations and manage access to hardware facilities such as memory and peripherals.

Page: instance of forms in windows that are created whenever a form is added to a window.

Paging and Scrolling: a method which allows a form to contain more data than can be displayed with provisions for viewing any portion of the data buffer.

Physical Device: a hardware terminal.

Qualified Name: the name of a form, item or window preceded by the hierarchy path so that it is uniquely identified.

Subform: a form that is used within another form.

User Data: data which is either input by the user or output by the application programs to items.

User Interface: (UI), IISS subsystem that controls the user's terminal and interfaces with the rest of the system. The UI consists of two major subsystems: the User Interface Development System (UIDS) and the User Interface Management System (UIMS).

User Interface Development System: (UIDS), collection of IISS User Interface subsystems that are used by applications programmers as they develop IISS applications. The UIDS includes the Form Editor and the Application Generator.

User Interface Management System: (UIMS), the runtime UI. It consists of the Form Processor, Virtual Terminal, Application Interface, the User Interface Services and the Text Editor.

User Interface Monitor: (UIM), part of the Form Processor that handles messaging between the NTM and the UI. It also provides authorization checks and initiates applications.

User Interface Services: (UIS), subset of the IISS User Interface that consists of a package of routines that aid users in controlling their environment. It includes message management, change password, and application definition services.

User Interface/Virtual Terminal Interface: (UI/VTI), another name for the User Interface.

Virtual Terminal: (VT), subset of the IISS User Interface that performs the interfacing between different terminals and the UI. This is done by defining a specific set of terminal features and protocols which must be supported by the UI software which constitutes the virtual terminal definition. Specific terminals are then mapped against the virtual terminal software by specific software modules written for each type of real terminal supported.

Window: dynamic area of a terminal screen on which predefined forms may be placed at run time.

Window Manager: a facility which allows the following to be manipulated: size and location of windows, the device on which an application is running, the position of a form within a window. It is part of the Form Processor.

SECTION 2

DEVELOPMENT ACTIVITY

2.1 Statement of Pretest Activity

During system development, the computer programs were tested progressively. Functionality was incrementally tested and as bugs were discovered by this testing, the software was corrected.

Each form used by the FDFE was individually tested. This testing was conducted by the individual program developer in a manual mode. The developer would manually enter data onto the screen and observe the results. Any errors were noted by the developer and corrections to the program were then made after a testing session.

2.2 Pretest Activity Results

Each testing of the forms used in the FDFE application discovered a few minor bugs which were then corrected and retesting proved successful. Testing included exceptional conditions and error conditions for data entered on the forms. The overall test results during development showed no major programming errors. Only minor bugs were discovered and corrected.

SECTION 3

SYSTEM DESCRIPTION

3.1 System Description

The FDFE interfaces directly with users as an application which uses the Form Processor (FP) - via the NTM. Physical terminals are assumed to have video display, a textual keyboard, four cursor positioning keys or key sequences, a help key or key sequence, a message key, an entry key, a quit key and four other keys to be used by the FDFE for special processing (see section 5.3). The FDFE must interface with the following software tools: the Forms Processor (FP), the Forms Compiler (FLAN), C language runtime routines and forms storage management. It is used to create or modify FDL files and to create new FD files; it can also be used to delete existing FDL and FD files as well as to rename existing FDL files (see Figure 3-1).

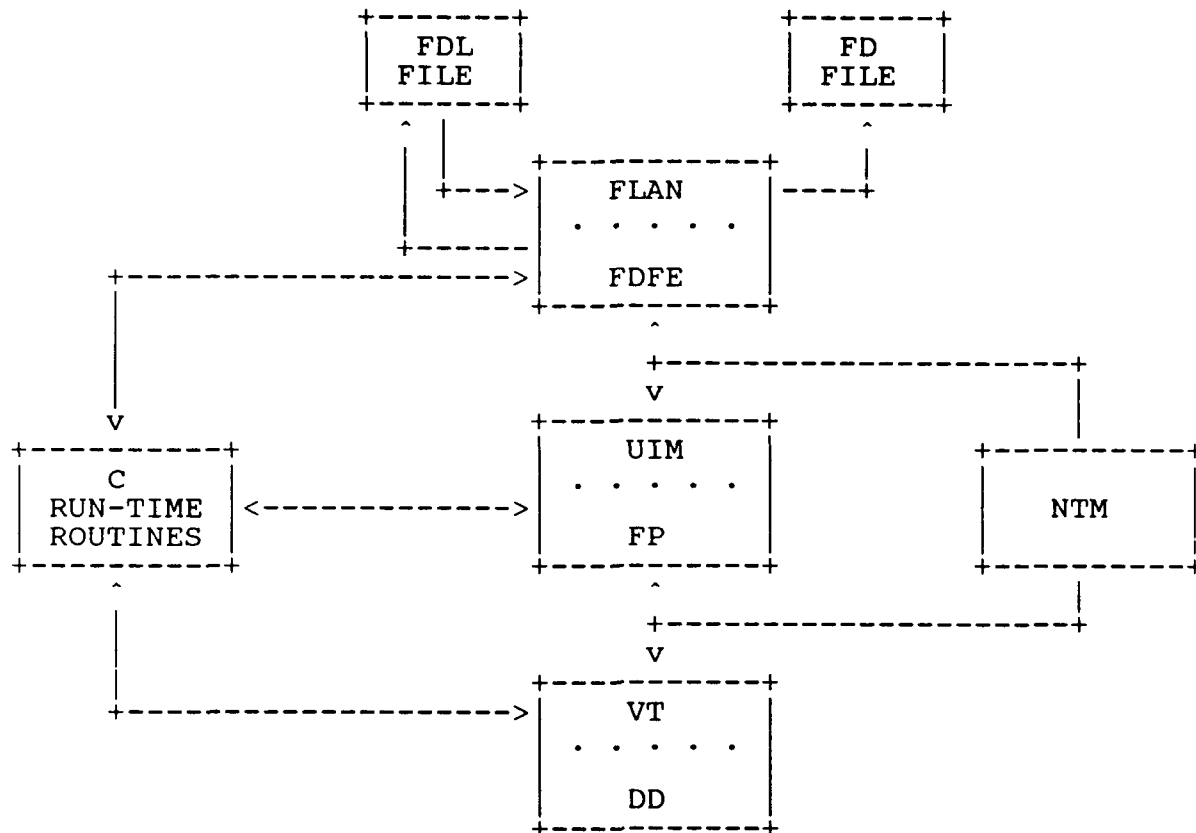


Figure 3-1 Interface Block Diagram

3.2 Testing Schedule

The execution of the FDFE is dependent upon the NTM subsystem of IISS and testing of the FDFE must be done only after the NTM has been successfully tested. Within the UI subsystem, the FDFE uses the FP, VT, AI and FLAN and must be tested only after they have been successfully tested.

3.3 First Location Testing

These tests of the FDFE require the following:

Equipment: Air Force VAX, or IBM terminal supported by the VT as listed in the the UI Terminal Operator Guide.

Support Software: The Integrated Information Support System, the Oracle database management system, and C run-time libraries.

Personnel: One integrator familiar with the UIS.

Training: FDFE manuals have been previously provided with the past release.

Deliverables: The FDFE subsystem of the UI.

Security considerations: None.

3.3.1 Test Materials on VAX

Test Materials: This test is interactive and can be manually performed as outlined in this test plan. It also could be run as a script file if so desired (see below).

3.4 Subsequent Location Testing on VAX

The requirements as listed above need to be met; however, in subsequent testing it may be advantageous to create a script file of the outlined tests and run this saving the output of the test for future comparisons.

SECTION 4

TEST SPECIFICATIONS AND EVALUATIONS

4.1 Test Specification

The following functionality of the FDFE is demonstrated by the test outlined in section 5:

- 1) Insert a Form Language Source
 - A) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - b) Single Field Edit mode
 - c) Icon Edit mode
 - B) Modify Form in Forms Language Source
 - a) Single Field Edit mode
- 2) Modify a Form Language Source
 - A) Insert Form into Forms Language Source
 - a) Layout Edit mode
 - B) Modify Form in Forms Language Source
 - a) Single Field Edit mode
 - b) Icon Edit mode
 - D) Drop a Form from Forms Language Source
 - E) List Forms in Forms Language Source
 - F) Write and Compile Forms Language Source
- 3) Select a Form Language Source
 - A) Layout Edit mode
 - B) Icon Edit mode
- 4) Display Compiled Form Definition
- 5) Copy Form Language Source to New Form Language Source
- 6) Rename Form Language Source to New Form Language Source
- 7) Drop Form Language Source
- 8) Drop Form Language Object
- 9) List Form Language Sources (FDL files)
- 10) List Form Language Objects (FD files)
- 11) Exit

Table 4-1 shows the direct correspondence between the test (the steps outlined in Section 5) and the functional requirements as listed in this section. These functions directly correspond to the detailed functional requirements of the Forms Driven Form Editor Development Specification. The '.' indicates the figures which illustrate the testing of the top level functions: insert, modify or select a forms language source file. The '*' indicates the figures which illustrate the testing of specific functions.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1.A.a	.	*																					
1.A.b	.		*																				
1.B	.			*																			
1.C	.				*																		
2.A						.	*																
2.B.a						.		*															
2.B.b									*														
2.C						.				*													
2.D						.					*												
2.E						.						*											
3.A												.	*										
3.B												.		*									
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6																		*					
7																			*				
8																				*			
9																					*		
10																						*	
11																							*

Table 4-1 Matrix mapping FDFE functions with test plan
Key for Table 1:

A = figures: 06-207
B = figures: 08-12
C = figures: 23-203
D = figures: 13-22
E = figures: 205-206
F = figures: 211-246
G = figures: 231-235
H = figures: 213-225
I = figures: 226-230
J = figures: 239-240
K = figures: 236-238, 241-243
L = figures: 244-246
M = figures: 250-258,
N = figures: 255-257
O = figures: 252-254
P = figures: 208-210, 247-249
Q = figures: 259-260
R = figures: 261-262
S = figures: 263-264
T = figures: 265-266
U = figures: 267-269
V = figures: 270-272
W = last instruction

4.2 Testing Methods and Constraints

The tests as outlined in Section 5 must be followed. The required input is stated for each test. This testing tests the normal mode of operation of these functions and does not completely exercise all the error combinations that a user of the FDFE might create by faulty entry of form field information. These tests have been done, however, through the normal testing done by the developer of these functions. IISSULIB and IISSSLIB should point to default directory. No additional constraints are placed on this unit test besides those listed in Section 3.2 and 3.3 of this unit test plan.

4.3 Test Progression

The progression of testing of the FDFE is fully outlined in Section 5 of this unit test plan. This progression should be followed exactly to insure the successful testing of this IISS configuration item.

4.4 Test Evaluation

The test results are evaluated by comparing the information returned on the various output screens to that specified as successful for the given test. As outlined below in section 5, each test of FDFE functionality provides an input screen with the required data entry specified and the resulting output for a successful test. The only differences found should be the date and time stamps on the IISS Function Screen (Figure 5-3).

4.4.1 Test Evaluation on the VAX

To speed up this testing, scripting can be used. If scripting is used, the script file FDFEUTP.SCP and its released test saved output FDFEUTP.SAV (Under IISS Configuration Management) should be copied to your test directory. To execute the scripting option type "-RDFEUTP.SCP -SFDFETST.SAV" when you activate the User Interface. For example:

```
$VT100 -RDFEUTP.SCP -SFDFETST.SAV
```

To compare the results with those obtained by SDRC, compare FDFETST.SAV with FDFEUTP.SAV using the command file DIFFILE.COM (Under IISS Configuration Management).

SECTION 5

TEST SPECIFICATIONS AND EVALUATIONS

5.1 Test Description

This test consists of creating an FDL source file using the FDFE and then using this file to perform all functions.

5.2 Test Control

As outlined, this unit test is a manual test which may be done by anyone. The required input data for each function being tested, the resulting successful output and the order of the testing are completely specified below. The test control information is completely described in Section 4.4. Accurate observation of the resulting successful output must be made to ensure the unit test was done properly. As noted in Section 4.4 above scripting may be used instead of the manual test described below.

5.3 Test Procedures

5.3.1 Keypad Function

The test of the FDFE application consists of individually testing each function provided by the FDFE. The following keys are generally used to move within forms (using the VT100 terminal as an example): the <ENTER> key is used to activate all commands; the <QUIT> key is used to go back to previous activity without taking current action; the <TAB> key is used to move from field to field within the form; and the arrow keys are used to move within fields. In addition, ESC TAB is a reverse TAB. The only application defined function keys used by the FDFE are: the function key (PF 15 on a VT100) which when in layout mode is used to transfer control to layout description mode and back again; the function key (PF 12 on a VT100) which when in layout mode is used to move fields around on a form; and two function keys which when in edit field mode or layout description mode are used to go to the previous and the next field on a form (PF 16 and PF 17 respectively on a VT100).

PF 1 MODE KEY	PF 2 HELP KEY	PF 3 MESSAGE QUEUE KEY	PF 4 QUIT KEY
PF 5	PF 6	PF 7	PF 8
PF 9	PF 10	PF 11	PF 12 Move fields on form in layout mode
PF 13	PF 14	PF 15 Go to dscpt. mode \ back to layout md	PF 0
PF 16 While in descrpt mode or edit field mode these keys used to scroll through fields on a form PF 16 = < \ PF 17 = >		PF 17	ENTER KEY

Figure 5-1 Keypad Layout

5.3.1.1 Keypad on VAX

The function key locations are mapped 1:1 to the generic layout shown in Figure 5-1.

5.3.1.2 Keypad on IBM

The generic keypad must be mapped to the terminal that you are using. PA2 is used to shift to the PF 13 to PF24 set. The PF0 key (ENTER) is the <RETURN> key.

5.3.2 Test Procedures on VAX

To run the unit test plan in the VAX/VMS environment as outlined below, one must be logged on to an IISS account. The NTM must be up and running and the UI logical names IISSFLIB, IISSULIB, IISSSLIB and IISSMLIB must be set properly at the

group level. IISSFLIB points to the directory containing system form definitions (FD files). IISSULIB points to the directory containing the user's form definitions (FD files). IISSSLIB points to the directory containing the user's form definition source files (FDL files). IISSMLIB points to the directory containing error and help messages (MSG files). To perform this test IISSULIB and IISSSLIB must be pointing to the default directory.

Assuming the NTM is up and running, an IISS user may start the test using scripting as follows:

```
$ SET DEF <to directory containing NTM environment>  
$ VT100 -RDFEUTP.SCP -SFDFETST.SAV
```

These commands start up the VT100 device driver with a source script as input and specify a save file for the results of the test.

If the User Interface system has been installed at your site with a different device driver, then this step is amended as appropriate. The test begins executing on the terminal. The results of this test are saved in the current directory in the file FDFEUTP.SAV. To execute this test manually enter only "VT100" at the second '\$'. This brings up the IISS Logon Screen as shown in Figure 5-2. The inputs and outputs for the test are illustrated by examining the screens shown in section 5.3.4.

5.3.3 IBM Test Procedures

Partitioned datasets must be allocated for each of the following symbolic names: iissslib, iissflib, iissulib, tmplis and iissmlib. Each of the datasets should be compressed before testing. Additionally, it is recommended that the following dataset characteristics and minimum space allocations be used:

iissslib	Variable blocked with LRCL 80, BLKSIZE 3120, and 10 tracks with 5 directory blocks.
iissflib, iissulib, tmplis	Variable blocked with LRCL 80, BLKSIZE 3120, and 15 tracks with 15 directory blocks.
iissmlib	Fixed block with LRECL 73, BLKSIZE 730, and 3 tracks with 2 directory blocks.

NOTE that the BATIISS JCL that is run to bring up the NTM preallocates these datasets.

Assuming the NTM is up and running, an IISS user may start this test by accessing the IISS environment. To do this, enter "LOGON APPLID(IISSi)" at the ENTER APPLICATION: prompt. The "i" following IISS must be your IISS instance id as specified in the NTM SYSGEN file. This starts up the IBM3270 device driver and brings up the IISS Logon Screen as shown in Figure 5-2. Proceed as described in the following section.

5.3.4 Testing the FDFE

On either an IBM or VAX host, when the User Interface is activated, the following form appears:

USER ID: _____	
PASSWORD: _____	
ROLE: _____	
Msg: 0	applcation

Figure 5-2 IISS Logon Screen

- (1) USER ID is input as "MORENC".
- (2) PASSWORD is input as "STANLEY".

(3) ROLE is input as "MANAGER".

When this form is correctly completed and the <ENTER> key is pressed, the IISS Function Screen is displayed.



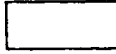


I I S S T E S T B E D V E R S I O N 3			
DATE: __/__/__	TIME__:__:__	USER ID: _____	ROLE: _____
FUNCTION: _____		DEVICE TYPE: _____	DEVICE NAME: _____
Msg: 0		application	

Figure 5-3 IISS Function Screen

To invoke the FDFE enter:

UTMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
EXIT form driven form editor (EX)					

MSG: ☐ Enter command on command entry line or use menu selection application

Figure 5-4 Invoking the FDFE

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

MSG: ☐ Enter command on command entry line or use menu selection application

Figure 5-5 First FDFE Screen - Test Screen 1

To test inserting a form into an FDL file enter:

```
WINS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

PP1      ITREDIT
PLAN1    LOSKB
PLAN2    RP
ARTEST   OPTST
AUTOTAG  PSCREEN
BARGRD   RVFRONT
CHPPFD   STSCEN
DTD      TESTIN
SDAYOR   YESTRn
SDSPNG   YDAYn
SDSLB    BTL
FDR      FDR
FLMSTST  FLMSTST
PLFRONT  PLFRONT
CUTTEST  CUTTEST
BRVTRX   BRVTRX
BRVTST   BRVTST






MSG: 1 Press <QUIT> to return application
```

Figure 5-6 Test Screen 2

The following screen should appear.

UIHS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
view Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit Interactive form editor (EX)	(EX)				

MSG application

Figure 5-7 Test Screen 3

UTP620344402
30 September 1990

If the following is entered on the edit task menu screen,

```
UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

PAT1
PAT2
PF1
11082LP

PSG 1 Press QUIT to return application
```

Figure 5-8 Test Screen 4

The following screen should appear.

UIHS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)	a	utpform	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)		<input type="text"/>			
Exit form driver form editor (EX)	(EX)				




MSC: C application

Figure 5-9 Test Screen 5

If the following is entered,

UTPS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 3, 1983

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Delete a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Insert PDL Source
Form Source: UTPFORM

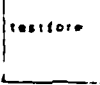

PSC ☐ Enter command on command entry line or use menu selection application

Figure 5-10 Test Screen 6

The following screen should appear.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)		testform	1	
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (E+)					
Exit Compile (E-)					
Exit No save (EN)					

Work Task: Insert PDL Source
Form Source: UTPFORM

MSG 1 Enter command on command entry line or use menu selection application

Figure 5-11 Test Screen 7

UTP620344402
30 September 1990

To return to edit task menu screen press the <QUIT> key. The result should be.

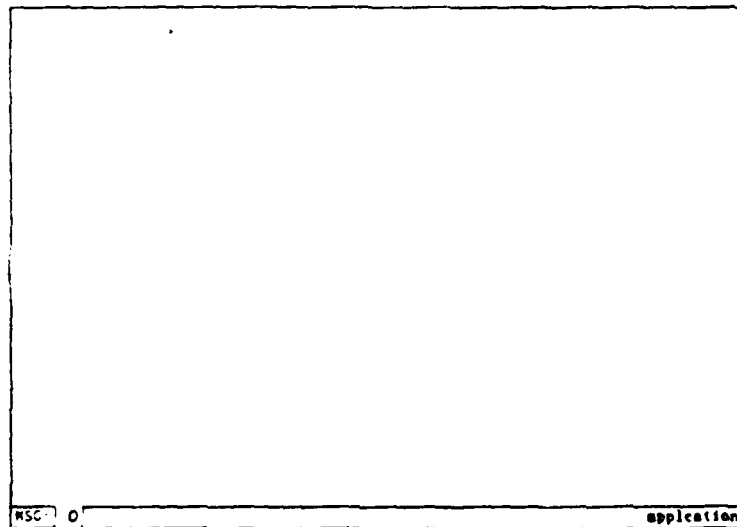


Figure 5-12 Test Screen 8

If the following is entered on the edit task menu screen,

The screenshot shows a form with the following content:

```
@Structural Dynamics Research Corporation@
@2000 Eastman Drive@
@Milford, Ohio 45150@

"Pay to the Order of"
(                                     ) >$>(                                     )
(                                     ) <dollars<

(                                     )
"-----"
(                                     )
```

At the bottom right of the form, the word "application" is visible.

Figure 5-13 Test Screen 9

The following screen should appear.

```

@Structural Dynamics Research Corporation
@2000 Eastman Drive
@Milford, Ohio 45150

                                >Date>[-----]

"Pay to the Order of"
[-----] >$>[-----]

[-----]<dollars<

[-----]

      "Memo"                      "-----"
                                [-----]

```




MSG 1 Screen has been entered successfully . . . plcation

Figure 5-14 Test Screen 10

If the following is entered and <pf17> is pressed,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Insert PDL Source
Form Source: UTPFORM


MSC  application

Figure 5-15 Test Screen 11

The following screen should appear.

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK	Field	Form	
Type			
Direct			
Get FDL			
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	<->
Display		Spacing	
Background		Prompt	
ITEM ONLY:		Yes	Row Col
Justify	Box Type	Box Value	
Case	Enter/Exit	Box Value	
MSG: 1 Enter task and field to be acted on application			

Figure 5-16 Test Screen 12

If the following is entered,

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK	a		
Field			
Type	a		
Direct	b		
Get FDL		Form	
FORM TESTFORM			
Size	0	b	0
Background	BLACK		
Prompt	Structural Dynamics Resea		
Row	5	Column	3
REQUIRED:			
FIELD		Type	
Row		Column	
Size		By	
Display/			
Background			
OPTIONAL:			
Display		Field	
Actual		Repetition	
Direction		<->	
Spacing			
ITEM ONLY:			
Justify		Data Type	
Case		Enter/Fill	
		Min Value	
		MAX Value	
MSG: 1 Enter task and field to be acted on			
application			

Figure 5-17 Test Screen 13

The following screen should appear.

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK	FORM TESTFORM		
Field	Size	0 by 0	
Type	Background	BLACK	
Director	Prompt	Structural Dynamics Resea	
Get FDL	Row	5	Column 3
REQUIRED:			
FIELD	FILE 17 40	Type	1
Row	17	Column	40
Size	30	By	1
Display	INFJ.		
Background			
OPTIONAL:			
Display	Field		
Actual	Repetition		
Direction	<->		
Spacing			
Prompt			
Pos	TC	Rev	96 Co: 41
ITEM ONLY:			
Justify	Data Type	C	MIN Value
Case	Enter/Fill		MAX Value
WSG <input type="checkbox"/> Make Your Modifications now application			

Figure 5-18 Test Screen 14

If <pf17> is pressed the following screen should appear.

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK	R		
Field			
Type	A		
Direct	B		
Get FDL		Form	
FORM TESTFORM			
Size	0	by	0
Background	BLACK		
Prompt	Structural Dynamics Resea		
Row	5	Column	3
REQUIRED:			
FIELD	signature	Type	I
Row	17	Column	40
Size	30	By	1
Display	INPUT		
Background			
OPTIONAL:			
Display		Field	
Actual		Repetition	
Direction		Spacing	<->
Prompt	-----		
Pos	C Row 16 Col 41		
ITEM ONLY:			
Justify		Data Type	C
Case		Enter Full	
		MIN Value	
		MAX Value	
PSC: Make Your Modifications now application			

Figure 5-19 Test Screen 15

If the following is entered,




FIELD EDIT MODE			
For FDL File UTPFORM			
TASK	R		
Field			
Type	A		
Direct	B		
Get FDL		Form	
FORM TESTFORM			
Size	0	0	
Background	BLACK		
Prompt	Structural Dynamics Resea		
Rev	5	Column	3
REQUIRED:			
FIELD	SIGNATURE	Type	1
Rev	17	Column	40
Size	30	By	1
Display/	INPUT		
Background			
OPTIONAL:			
Display		Field	
Actual		Repetition	
Direction			<->
Spacing			
Prompt			
Poc TC Row 16 Col 41			
ITEM ONLY:			
Locality		Data Type	C
Case		Enter/Fall	
		MIN Value	
		MAX Value	
MSG: 1 Field was successfully modified			
application			

Figure 5-20 Test Screen 16

The following screen should appear.

UIRS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(VF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Insert PDL Source
Form Source: UTPFORM

MSG. application

Figure 5-21 Test Screen 17

To return to edit task menu screen press the <QUIT> key. The result should be.

FORM EDIT MODE

For FDL File **STPPORM**

TASK **TESTFORM**

Type **0** by **0**

Get FDL **Form** Background **BLACK**

Prompt **Structural Dynamics Resea**

Row **5** Column **3**

-- Field Characteristics Table --

MSC: **1** Enter task and type of fields to be acted on application

Figure 5-22 Test Screen 18

If the following is entered on the edit task menu screen,

FORM EDIT MODE			
For FDL File UTPFORM			
TASK	P	FORM	TESTFORM
Type	a	Size	0 by 0
Get FDL	Form	Background	BLACK
		Prompt	Structural Dynamics Reson
		Row	3 Column 3
-- Field Characteristics Table --			
NSC Enter task and type of fields to be acted on application			

Figure 5-23 Test Screen 19

The following screen should appear.

FORM EDIT MODE

For FDL File UTPFORM

TASK #

Type A

Get FDL Form

FORM TESTFORM

Size by

Background BLANK

Prompt Structural Dynamics Resea

Row Column

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Day	Act	D	Sp	Prompt	Pos
SIGNATURE	1	37	40	30	1 INPUT						TC
FLD_13_04	1	15	4	21	1 INPUT					memo	BC
FLD_12_04	1	12	4	57	1 INPUT					dollars	RT
FLD_10_66	1	10	66	12	1 INPUT					\$	LT
FLD_10_04	1	10	4	57	1 INPUT					Pay to the Order of	
FLD_08_60	1	8	60	12	1 INPUT					Date	LT

Make

MSC: ☐ Make Your Modifications now application

Figure 5-24 Test Screen 20

If cursor is placed where marked below and <pf16> is pressed,

FORM EDIT MODE

For FDL File UTPFORM

TASK H

Type A

Get FDL Form

FORM TESTFORM

Size 0 by 0

Background BLACK

Prompt Structural Dynamics Resea

Row 5 Column 3

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Dsp	Act	D	Sp	Prompt	Pos
SIGNATURE	1	17	40	30	1	INPUT					TC
memo	1	15	4	21	1	INPUT					BC
dollars	1	12	4	57	1	INPUT					RT
amount	1	10	66	12	1	INPUT					LT
pay_to	1	10	4	57	1	INPUT					LT
chk_date	1	8	66	12	1	INPUT					LT

Note--

MSC: 1 Make Your Modifications now

application

Figure 5-25 Test Screen 21

The result should be.

FORM EDIT MODE

For FDL File UTPFORM

TASY M
Type A

FORM TESTFORM

Size 0 by 0

Get FDL Form Background BLAC

Prompt Structural Dynamics Resea

Row 5/Column 3

-- Field Characteristics Table --

Item name Help Message

SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAY TO	
CHEK DATE	

☐ More--

MSC: 0 application

Figure 5-26 Test Screen 22

If cursor is placed where marked below and <pfl6> is pressed,

FORM EDIT MODE	
For FDL File UTPFORM	
TASK	FORM TESTFORM
Type	Size 0 by 0
Ge: FDL	Form
	Background BLACK
	Prompt Structural Dynamics Resea
	Row 5 Column 3
-- Field Characteristics Table --	
Item Name	Help Message
SIGNATURE	
MEMO	
DOLLARS	
AMOUNT	
PAT_YO	
CHK_DATE	
More--	
MSG	0 application

Figure 5-27 Test Screen 23

The result should be.

FORM EDIT MODE

For FDL File UTPFORM

TASK

Type

Get FDL Form

FORM TESTFORM

Size by

Background

Prompt

Row Column

-- Field Characteristics Table --

Item Name	Item Value
SIGNATURE	<input type="text"/>
MEMO	
DOLLARS	
AMOUNT	
PAY TO	
CHE DATE	

☐ More--

MSC:

application

Figure 5-28 Test Screen 24

If cursor is placed where marked below and <ENTER> is pressed,

FORM EDIT MODE	
For FDL File UTPFORM	
TASK	H
Type	A
Get FDL	Form
FORM TESTFORM	
Size	0 by 0
Background	BLACK
Prompt	Structural Dynamics Resea
Row	5 Column 3
-- Field Characteristics Table --	
Item Name	Item Value
SIGNATURE	
\$\$\$	
DOLLARS	
AMOUNT	
PI* TO	
CHK_DATE	
More--	
PSC	application

Figure 5-29 Test Screen 25

The result should be.

FORM EDIT MODE

For FDL File UTPFORM

TASK P FORM TESTFORM

Type A Size 0 by 0

Get FDL Form Background BLACK

 Prompt Structural Dynamics Resea

 Row 3 Column 3

-- Field Characteristics Table --

Item Name	Just	Case	Type	E/P	Min	Max
SIGNATURE			C			
MEMO			C			
DOLLARS			C			
AMOUNT			C			
PAY TO			C			
CHEQ AMT			C			

MSC: 0 application

Figure 5-30 Test Screen 26

If <pf5> is pressed, the result should be.

```

FORM EDIT MODE

For FDL File UTPFORM

TASK N
Type A
Get FDL Form

FORM TESTFORM
Size 0 by 0
Background BLACK
Prompt Structural Dynamics Resea
Row 3 Column 3

-- Field Characteristics Table --

MSG: 6:CEX DATE has been successfully modified application

```

Figure 5-31 Test Screen 27

If <pf8> is pressed, the result should be.




Message Queue		
Msg:	6	CHK_DATE has been successfully modified
Msg:	5	PAY_TO has been successfully modified
Msg:	4	AMOUNT has been successfully modified
Msg:	3	DOLLARS has been successfully modified
Msg:	2	MEMO has been successfully modified
Msg:	1	SIGNATURE has been successfully modified
MSG:	6	CHK_DATE has been successfully modified application

Figure 5-32 Test Screen 28

If <pf6> is pressed, the result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(VF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Delete a Form (DF)					
Exit Write (E+)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Insert PDL Source
Form Source: UTPFORM





MS-C application

Figure 5-33 Test Screen 29

If <pf7> is pressed, the result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Insert FDL Source
Form Source: WTPFORM

MSG: Save source and compile was successful

application

Figure 5-34 Test Screen 30

If the following is entered,

UIRS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

VOW TASKS		Command	Pic	For/From Name	To/New Name	Help
List	FDL Sources	(LS)		<input type="text"/>	<input type="text"/>	
Insert	FDL Source	(IS)				
Modify	FDL Source	(MS)				
Select	FDL Source	(SS)				
Copy	FDL Source	(CS)				
Rename	FDL Source	(RS)	x	<input type="text" value="testform"/>		
Drop	FDL Source	(DS)				
List	Compiled form definitions(LC)					
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
EXIT	form driven form editor	(EX)				

MSC 0 application

Figure 5-35 Test Screen 31

The result should be.

Structural Dynamics Research Corporation
2000 Eastman Drive
Milford, Ohio 45150

Date

Pay to the Order of \$
 dollars

MEMO

MSC Press <ESC> to return application

Figure 5-36 Test Screen 32

If <pf10> is press, the result should be.

UNS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Drop FDL Source	(DS)				
List Compiled form definitions(LC)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

HSC application

Figure 5-37 Test Screen 33

If <pf10> is pressed, the result should be.

UTP FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1981

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Write	Form(WF)				
Compile	Form(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Modify FDL Source
Form Source: HEPFORM

MSG ☐ Enter command on command entry line or use menu selection application

Figure 5-38 Test Screen 34

If <pf10> is pressed, the result should be.

UIRS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 3, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task Modify PDL Source
Form Source UTTPORN

PSD Enter command or command entry line or use menu selection application

Figure 5-39 Test Screen 35

If <pf10> is pressed, the result should be.

```
UTPS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985
List of Forms for FDL File
UTPPORN
TESTPORN
NSC ☐ Press <QUIT> to return application
```

Figure 5-40 Test Screen 36

If the following is entered,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASK	Command	Pic	Form Name	Edit Mode	Help
List	Form(LF)				
Write	Form(VF)				
Compile	Form(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No Save	(EN)				

Work Test: Modify FDL Source
Form Source: UTPFORM

MSG: 0 application

Figure 5-41 Test Screen 37

The result should be.

```

FORM EDIT MODE

For FDL File OTTFORM
TASK
Type
Get FDL Form

FORM TESTFORM
Size 77 by 17
Background BLACK
Prompt Structural Dynamics Resea
Row 5 Column 3

-- Field Characteristics Table --

MSG: 1 Enter task and type of fields to be acted on
application

```

Figure 5-42 Test Screen 38

If cursor is placed where marked below and <pf16> is pressed,

FORM EDIT MODE

For FDL File UTPFORM

TASK	a	FORM TESTFORM
Type	a	Size 77 by 17
Get FDL	Form	Background BLACK
		Prompt Structural Dynamics Resea
		Row 5 Column 3

-- Field Characteristics Table --

ESC 1 Enter task and type of fields to be acted on application

Figure 5-43 Test Screen 39

The result should be.

```

FORM EDIT MODE

For FDL File UTPFORM
TASK *
Type A
Get FDL Form

FORM TESTFORM
Size 77 by 17
Background BLACK
Prompt Structural Dynamics Resea
Row 5 Column 3

-- Field Characteristics Table --

Field Name 1 Row Col Size Display Dsp Act D Sp Prompt TC
SIGNATURE 1 17 40 30 1 INPUT          BC
MEMO       1 15 4 21 1 INPUT          BC
DOLLARS    1 12 4 57 1 INPUT          PT
AMOUNT     1 10 66 12 1 INPUT          LT
PAY_TO     1 10 4 57 1 INPUT          LT
CRK_DATE   1 8 60 12 1 INPUT          LT

Note:

```

Figure 5-44 Test Screen 40

If is cursor placed where marked below and <pf16> is pressed,

FORM EDIT MODE

For FDL File UTPFORM

TASK FORM TESTFORM

Type Size by

Get FDL Background

Prompt

Row Column

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Dsp	Act	D	Sp	Prompt	Pos
SIGNATURE	1	17	40	30	1 INPUT						TC
MEMO	1	12	4	21	1 INPUT	1	3	h	0	memo	BC
DOLLARS	1	12	4	57	1 INPUT					dollars	BT
AMOUNT	1	10	66	12	1 INPUT					S	LT
PAY TO	1	10	4	57	1 INPUT					Pay to the Order of	LT
CRT DATE	1	8	60	12	1 output					Date	LT

More...

MSD ☐ Make Your Modifications on application

Figure 5-45 Test Screen 41

The result should be.

FORM EDIT MODE

For FDL File TESTFORM

TASK

Type

Gen. FDL Form

FORM TESTFORM

Size by

Background BLACK

Prompt Structural Dynamics Reson

Row Column

-- Field Characteristics Table --

RSC: CEX DATE has been successfully modified application

Figure 5-46 Test Screen 42

If cursor is placed where marked below and <ENTER> is pressed,

Message Queue		
Msg:	6	CHK_DATE has been successfully modified
Msg:	5	PAY_TO has been successfully modified
Msg:	4	AMOUNT has been successfully modified
Msg:	3	DOLLARS has been successfully modified
Msg:	2	MEMO has been successfully modified
Msg:	1	SIGNATURE has been successfully modified

Msg:	6	CHK_DATE has been successfully modified	application
------	---	---	-------------

Figure 5-47 Test Screen 43

The result should be.

UTP620344402
30 September 1990

The result should be.

The screenshot shows a terminal window titled "UTP620344402". At the top, it says "UTP620344402" and "30 September 1990". Below this is a "Command Entry" field containing "HF TESTFORM a". Underneath is a table with the following columns: "EDIT TASKS", "Command", "Pic", "Form Name", "Edit Mode", and "Help". The table lists several tasks: "List Forms (LF)", "Write Forms (WF)", "Compile Forms (CF)", "Select a Form (SF)", "Insert a Form (IF)", "Modify a Form (MF)", "Drop a Form (DF)", "Save Write (SW)", "Save Compile (SC)", and "Exit No save (EN)". To the right of the table, there are three vertical bars representing the "Pic", "Form Name", and "Edit Mode" columns. Below the table, it says "Work Task: Modify PDL Source" and "Form Source: UTPFORM". At the bottom left, there is a status bar with "NSC" and a small box containing "0". At the bottom right, it says "application".

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms (LF)				
Write	Forms (WF)				
Compile	Forms (CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Save Write	(SW)				
Save Compile	(SC)				
Exit No save	(EN)				

Work Task: Modify PDL Source
Form Source: UTPFORM

NSC: 0 application

Figure 5-48 Test Screen 44

If cursor is placed where marked below and <pf16> is pressed,

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK		FORM	TESTFORM
Field		Size	77 by 17
Type		Background	BLACK
Direct		Prompt	Structural Dynamics Resea
Get FDL	Form	Row	5 (Column 3)
REQUIRED:		OPTIONAL:	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	By	Direction	<->
Display		Spacing	
Background		Prompt	
ITEM ON-L		Pos	Row Col
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
Enter task and field to be acted on			application

Figure 5-49 Test Screen 45

The result should be.

FIELD EDIT MODE			
For FDL File UTPFORM		FORM TESTFORM	
TASK	Field cha date	Size	77 b) 17
Type		Background	BLACK
Direct		Prompt	Structural Dynamics Resea
Get FDL	Form	Row	5 Column 3
REQUIRED		OPTIONAL	
FIELD	Type	Display	Field
Row	Column	Actual	Repetition
Size	B)	Direction	<->
Display		Spacing	
Background		Prompt	
JTEP ON.1:		Pos	Row Col
Justify Data Type MIN Value			
Case	Enter/Fill	MAX Value	
MSG: 1 Enter task and field to be acted on application			

Figure 5-50 Test Screen 46

If cursor is placed where marked below and <pf16> is pressed,

FIELD EDIT MODE			
For FDL File UTPFORM		FORM TESTFORM	
TASK	Field	Size	77 by 17
	CHK DATE	Background	BLACK
Type		Prompt	Structural Dynamics Resea
Direct		Rev	5 Column 3
Get FL	Form		
REQUIRED:		OPTIONAL:	
FIELD	CHK DATE	Type	3
Row	8	Column	60
Size	12	By	1
Display	OUTPUT	Display	Field
Background		Actual	Repetition
		Direction	<->
		Spacing	
		Prompt	Date
		Pos	17 Row 8 Col 55
ITEM ONLY:			
Justify	Data Type	Min Value	
Case	Enter Field	MAX Value	
MSD 1 Make Your Modifications now			application

Figure 5-51 Test Screen 47

The result should be.

FIELD EDIT MODE

For FD: File BTTPORN

TASK #

Field CHN DATE

Type

Direct

Get FOL Form

PORN TELTRON

Size 77 by 17

Background BLACK

Prompt Structural Dynamics Resea

Row 5 Column 3

REQUIRED:

FIELD CHN DATE Type 1

Row 8 Column 60

Size 12 By 1

Display: OUTPL

Background

OPTIONAL:

Display Actual Field Repetition

Direction Spacing <->

Prompt Date

Pos LT Row 8 Col 35

ITEM ONLY:

"01/11/1986"

Justify Date Type C MIN Value

Case Dates/Fill MAX Value

MSG: 1 Make Your Modifications now application

Figure 5-52 Test Screen 48

If cursor is placed where marked below and <ENTER> is pressed,

FIELD EDIT MODE

For PDL File UTPFORM

TASK [M]

Field [CHK DATE]

Type []

Direct []

Get PDL [] Form []

FORM TESTFORM

Size [77] by [17]

Background [BLACK]

Prompt [Structural Dynamics Resea]

Row [5] Column [3]

REQUIRED:

FIELD [CHK DATE] Type []

Row [8] Column [60]

Size [12] By [1]

Display [OUTPUT]

Background []

OPTIONAL:

Display [] Field

Actual [] Repetition

Direction []

Spacing []

Prompt [Date]

Pos [LT, Row 8 Col 55]

ITEM ONLY:

[]

Justify [] Data Type [C] MIN Value []

Case [] Enter/Fill [] MAX Value []

MSG [1] Field was successfully modified




application

Figure 5-53 Test Screen 49

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EW)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: UTPFORM

MSC: application

Figure 5-54 Test Screen 50

If cursor is placed where marked below and <ENTER> is pressed,

The screenshot displays a form within a rectangular border. The text inside the form is as follows:

Structural Dynamics Research Corporation
2000 Eastman Drive
Willford, Ohio 43150

Pay to the Order of
(-----) >\$>(-----)
(-----)<dollar<
(-----)
"none" "-----"
(-----)




At the bottom left of the form is the text "MS-DOS" and at the bottom right is the text "application".

Figure 5-55 Test Screen 51

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(WF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Delete a Form (DF)					
Back Write (BW)					
Back Compile (BC)					
Exit No save (BN)					

Work Task: Modify PDL Source
Form Source: UTPFORM

MSC: application

Figure 5-56 Test Screen 52

If cursor is placed where marked below and <ENTER> is pressed,

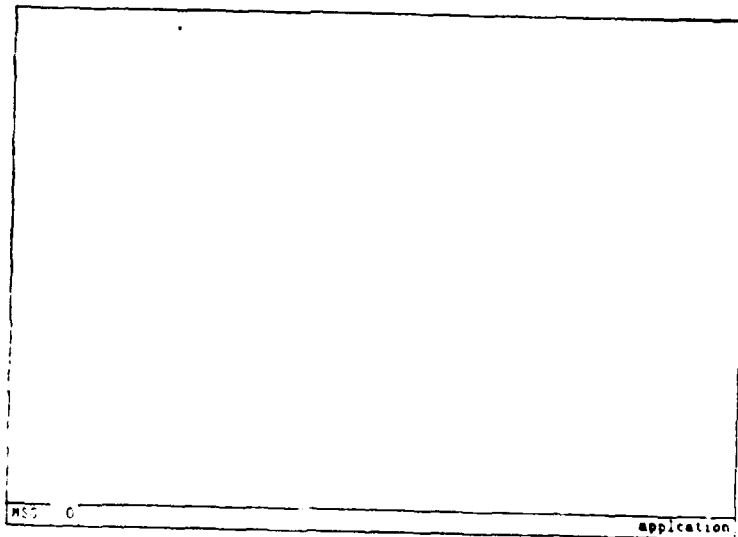


Figure 5-57 Test Screen 53

The result should be.

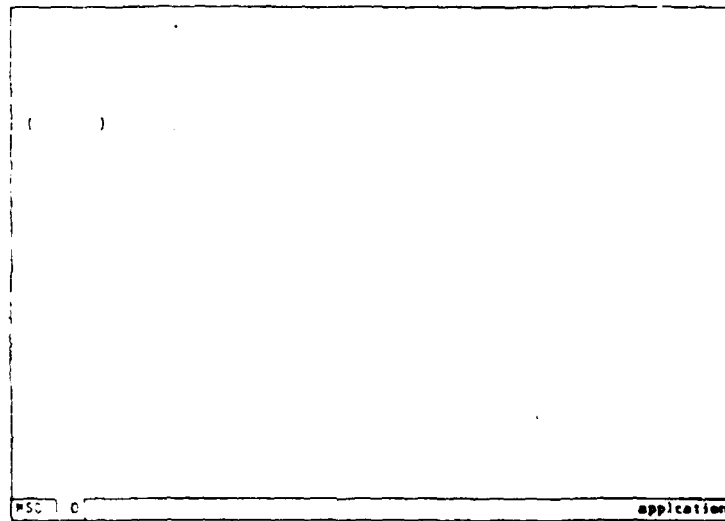


Figure 5-58 Test Screen 54

If <pf14> is pressed, the result should be.

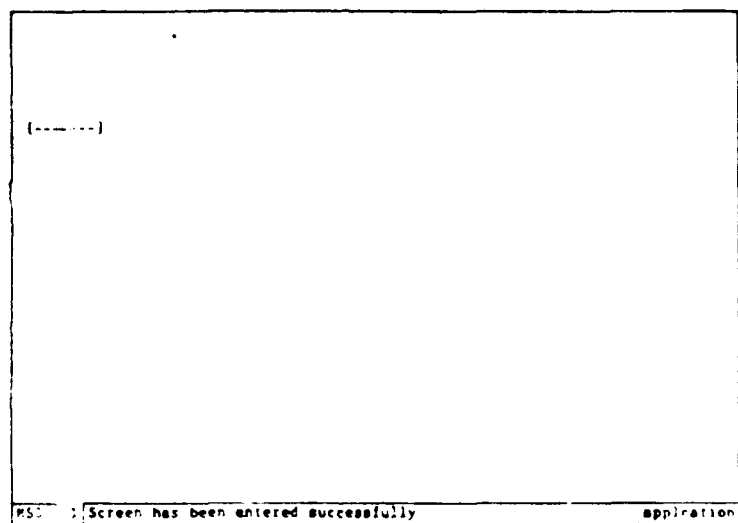


Figure 5-59 Test Screen 55

If <pf13> is pressed, the result should be.

UTMS FORMS DRIVEN FORM EDITOR - VERSION 1.0 JUNE 1, 1985

Command Entry dl testform:

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(VF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Modify PDL Source
Form Source: UTPPDM

HSC: 0 application

Figure 5-60 Test Screen 56

If <pf13> is pressed, the result should be.

UIHS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS Command	Pic	Form Name	Edit Mode	Help
List Forms(LF)				
Write Forms(WF)				
Compile Forms(CF)				
Select a Form (SF)				
Insert a Form (IF)				
Modify a Form (MF)				
Drop a Form (DF)				
Exit Write (EW)				
Exit Compile (EC)				
Exit No save (EN)				

Work Task: Modify PDL Source
Form Source: UTPFORM

PS. 1 Drop form was successful





application

Figure 5-61 Test Screen 57

If cursor is placed where marked below and <ENTER> is pressed,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LF)				
Write	Forms(VF)				
Compile	Forms(CF)				
Select a Form (SF)					
Insert a Form (IF)					
Modify a Form (MF)					
Drop a Form (DF)					
Exit Write (EW)					
Exit Compile (EC)					
Exit No save (EN)					

Work Task: Modify PDL Source
Form Source: UTPFORM

HSC: Drop form was successful

application

Figure 5-62 Test Screen 58

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Mode	Help
List	Forms(LP)				
Write	Forms(UP)				
Compile	Forms(CF)				
Select a Form	(SF)				
Insert a Form	(IF)				
Modify a Form	(MF)				
Drop a Form	(DF)				
Exit Write	(EV)				
Exit Compile	(EC)				
Exit No save	(EN)				

Work Task: Modify FDL Source
Form Source: UTPFORM

MS: ☐ Save source and compile was successful application

Figure 5-63 Test Screen 59

If cursor is placed where marked below and <ENTER> is pressed,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

VORU TASKS	Command	Pic	Per/From Name	To/Rev Name	Help
List FDL Source	(LS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

MSC 0 application

Figure 5-64 Test Screen 60

The result should be.

UIRS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Nodes	Help
List	Forms(LF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Select a Form	(SF)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Exit the menu	(EX)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Work Task Select PDL Source for - READING ONLY
Form Source UTPFORM

PSG 1 Enter command on command entry line or use menu selection application

Figure 5-65 Test Screen 61

If cursor is placed where marked below and <pf16> is pressed,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry:

EDIT TASKS	Command	Fac	Form Name	Edit Modes	Help
List	Forms(LF)	<input type="text"/>		<input type="checkbox"/>	<input type="text"/>
Select a Form	(SF)				
Exit No save	(EH)				

Work Task: Select PDL Source for - READING ONLY
Form Source: HEPFORM

MSC: ☐ Enter command on command entry line or use menu selection application

Figure 5-66 Test Screen 62

The result should be.

FORM EDIT MODE

For FDL File UTPFORM

TASK 5

Type Form

Get FDL

Size 77 by 17

Background BLACK

Prompt Structural Dynamics Reses

Row 5 Column 3

-- Field Characteristics Table --

Enter type of fields to be viewed application

Figure 5-67 Test Screen 63

If cursor is placed where marked below and <ENTER> is pressed,

FORM EDIT MODE	
For FDL File UTPVORA	FORM TESTFORM
TASK S	Size 77 by 17
Type a	Background BLACK
Get FDL [] Form []	Prompt Structural Dynamics Resea
	Row 5 Column 3
-- Field Characteristics Table --	
RSC: 1 Enter type of fields to be viewed application	

Figure 5-68 Test Screen 64

The result should be.

FORM EDIT MODE

For FDL File UTPFORM

TASK S

Type A

Get FDL Form

FORM TESTFORM

Size 77 by 17

Background BLACK

Prompt Structural Dynamics Resea

Row 5 Column 3

-- Field Characteristics Table --

Field Name	T	Row	Col	Size	Display	Dsp	Act	D	Sp	Prompt	Pos
SIGNATURE	1	17	40	30	1	INPUT					TC
MEMO	1	15	4	21	1	INPUT	1	3	0	memo	BC
DOLLARS	1	12	4	57	1	INPUT				dollars	RT
AMOUNT	1	10	66	12	1	INPUT				\$	LT
PAY TO	1	10	4	57	1	INPUT				Pay to the Order of	
CHK_DATE	1	8	60	12	1	OUTPUT				Date	LT

Note--

MSG C application

Figure 5-69 Test Screen 65

If cursor is placed where marked below and <pf16> is pressed,

FORM EDIT MODE

For FDL File UTPFORM

TASK S

Type A

Get FDL

Form

FORM TESTFORM

Size 77 by 17

Background BLACK

Prompt Structural Dynamics Resea

Rev 5 Column 3

-- Field Characteristics Table --

PCL 0

application

Figure 5-70 Test Screen 66

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Forms (LF)	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
Select a Form	(SF)				
Exit No save	(EN)				

Work Task: Select FDL Source for - READING ONLY
Form Source: UTPFORM

MSC ☐ application

Figure 5-71 Test Screen 67

If cursor is placed where marked below and <ENTER> is pressed,

FIELD EDIT MODE			
For FDL File UTPFORM			
TASK 5	FORM TESTFORM		
Field	Size	77 by 17	
Type	Background	BLACK	
Direct	Prompt	Structural Dynamics Resea	
Get FDL	Row	5	Column 3
Form			
REQUIRED:			
FIELD	Type	Column	By
Row			
Size			
Display/			
Background			
OPTIONAL:			
Display	Field	Repetition	
Actual		<->	
Direction			
Spacing			
Prompt			
Pos	Row	Col	
ITEM ONLY:			
Justify	Form Type	MIN Value	
Case	Enter/Field	MAX Value	
FSC: 1 Enter field to be viewed			
application			

Figure 5-72 Test Screen 68

The result should be.

FIELD EDIT MODE

For FDL File UTPPORN

TASK 5

Field

Type a

Direct b

Get FDL Form

PORN TESTPORN

Size 77 by 17

Background BLACK

Prompt Structure: Dynamics Resea

Row 5 Column 3

REQUIRED:

FIELD

Row

Size

Display

Background

Type

Column

By

OPTIONAL:

Display

Actual

Direction

Spacing

Field Repetition <->

Prompt Pos

Row

Col

ITEM ONLY:

Justify Data Type MIN Value

Case Enter: Fill MAX Value

PSC: Enter field to be viewed

application

Figure 5-73 Test Screen 69

If cursor is placed where marked below and <ENTER> is press,

FIELD EDIT MODE			
For FDL File 0TPFORM			
TASK	S	FORM	TESTFORM
Field		Size	77 by 17
Type	A	Background	BLACK
Direct	B	Prompt	Structural Dynamics Resea
Get FDL		Rev	5 Column 3
REQUIRED:		OPTIONAL:	
FIELD	SIGNATURE	Type	1
Rev	17	Column	40
Size	30	By	1
Display/	JMPUS	Display	
Background		Actual	
		Direction	
		Spacing	
		Prompt	
		Pos	TC Rev 16 Col 41
ITEM ONLY:			
Justify	Data Type	MIN Value	
Case	Enter/Fill	MAX Value	
NSC	0	application	

Figure 5-74 Test Screen 70

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

EDIT TASKS	Command	Pic	Form Name	Edit Modes	Help
List	Forms (LF)				
Select a Form (SF)	x	testform	1		
Exit No save (EN)					

Work Task: Select FDL Source for - READING ONLY
Form Source: UTPFORM

MSC: ☐ application

Figure 5-75 Test Screen 71

If <pf13> is pressed, the result should be.

Structural Dynamics Research Corporation
2000 Eastman Drive
Milford, Ohio 45150

Date: {-----}

Pay to the Order of {-----} >\${-----}

{-----}<dollars<

{-----}

memo {-----}

{-----}



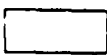

MSC C application

Figure 5-76 Test Screen 72

If cursor is placed where marked below and <ENTER> is press,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry: vc testform

WORK TASKS	Command	Pic	For/From Name	To/Rev Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

MSG ☐ application

Figure 5-77 Test Screen 73

The result should be.

Structural Dynamics Research Corporation
2000 Eastman Drive
Milford, Ohio 45150

Date 01/11/1988

Pay to the Order of _____ \$ _____

_____ dollars

MSC: 1 Press <QUIT> to return application

Figure 5-78 Test Screen 74

If cursor is placed where marked below and <ENTER> is pressed,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/Nav Name	Help
List PDL Sources	(LS)				
Insert PDL Source	(IS)				
Modify PDL Source	(MS)				
Select PDL Source	(SS)				
Copy PDL Source	(CS)				
Rename PDL Source	(RS)				
Drop PDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

PS0 0 application

Figure 5-79 Test Screen 75

The result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	Per/From Name	To/New Name	Help
List FDL Sources	(LS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Drop Compiled form definition (DC)					
EXIT form driven form editor (EX)					

MSG ☐ 1 Copy was successful application

Figure 5-80 Test Screen 76

If the following is entered,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry ds utpforn

WORK TASKS		Command	Pic	For/From Name	To/Nav Name	Help
List	PDL Sources	(LS)	[Vertical Bar]	[Box]	[Box]	[Vertical Bar]
Insert	PDL Source	(IS)				
Modify	PDL Source	(MS)				
Select	PDL Source	(SS)				
Copy	PDL Source	(CS)				
Rename	PDL Source	(RS)				
Drop	PDL Source	(DS)				
List	Compiled form definitions(LC)					
View	Compiled form definition (VC)					
Drop	Compiled form definition (DC)					
Exit	form driven form editor (EX)					


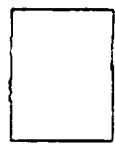


MSC Copy was successful application

Figure 5-81 Test Screen 77

The result should be.

UTMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry DS UTPFOR

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

MSG: 1 Drop source was successful application

Figure 5-82 Test Screen 78

If the following is entered,

UHNS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry RS COPYTEST UTPFORM1

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)	[]	[]	[]	[]
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)	[]	[]	[]	
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)		[]	[]	[]	
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					





MSG: ☒ Drop source was successful application

Figure 5-83 Test Screen 79

The result should be.

UTMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/Nav Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions (LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					




MSG: ☐ Rename was successful application

Figure 5-84 Test Screen 80

If <pf14> is pressed, the result should be.

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
EXIT form driven form editor (EX)					

MSG: ☐ Rename was successful application

Figuer 5-85 Test Screen 81

If the following is entered,

UIMS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/Nav Name	Help
List FDL Sources	(LS)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					






MSG: ☐ Drop Compiled form was successful application

Figure 5-86 Test Screen 82

The result should be.

UIRS FORMS DRIVEN FORM EDITOR - VERSION 2.0 JUNE 1, 1985

Command Entry

WORK TASKS	Command	Pic	For/From Name	To/New Name	Help
List FDL Sources	(LS)				
Insert FDL Source	(IS)				
Modify FDL Source	(MS)				
Select FDL Source	(SS)				
Copy FDL Source	(CS)				
Rename FDL Source	(RS)				
Drop FDL Source	(DS)				
List Compiled form definitions(LC)					
View Compiled form definition (VC)					
Drop Compiled form definition (DC)					
Exit form driven form editor (EX)					

HSC: Drop Compiled form was successful application

Figure 5-87 Test Screen 83